



DISTRIBUTED ACOUSTIC SENSING (DAS)

Real Time Fiber Optic Sensing
for Critical Infrastructure Protection





FOUNDED IN **2013**

 **WOLFIZ** do Digital Transformation leveraged with **AI & BI** via Custom Web & Mob APPs integrated with IOTs & Hardware equipment.

Employees

100+



Projects Delivered

1000+



Working with Governments



Working with Large Scale Enterprises



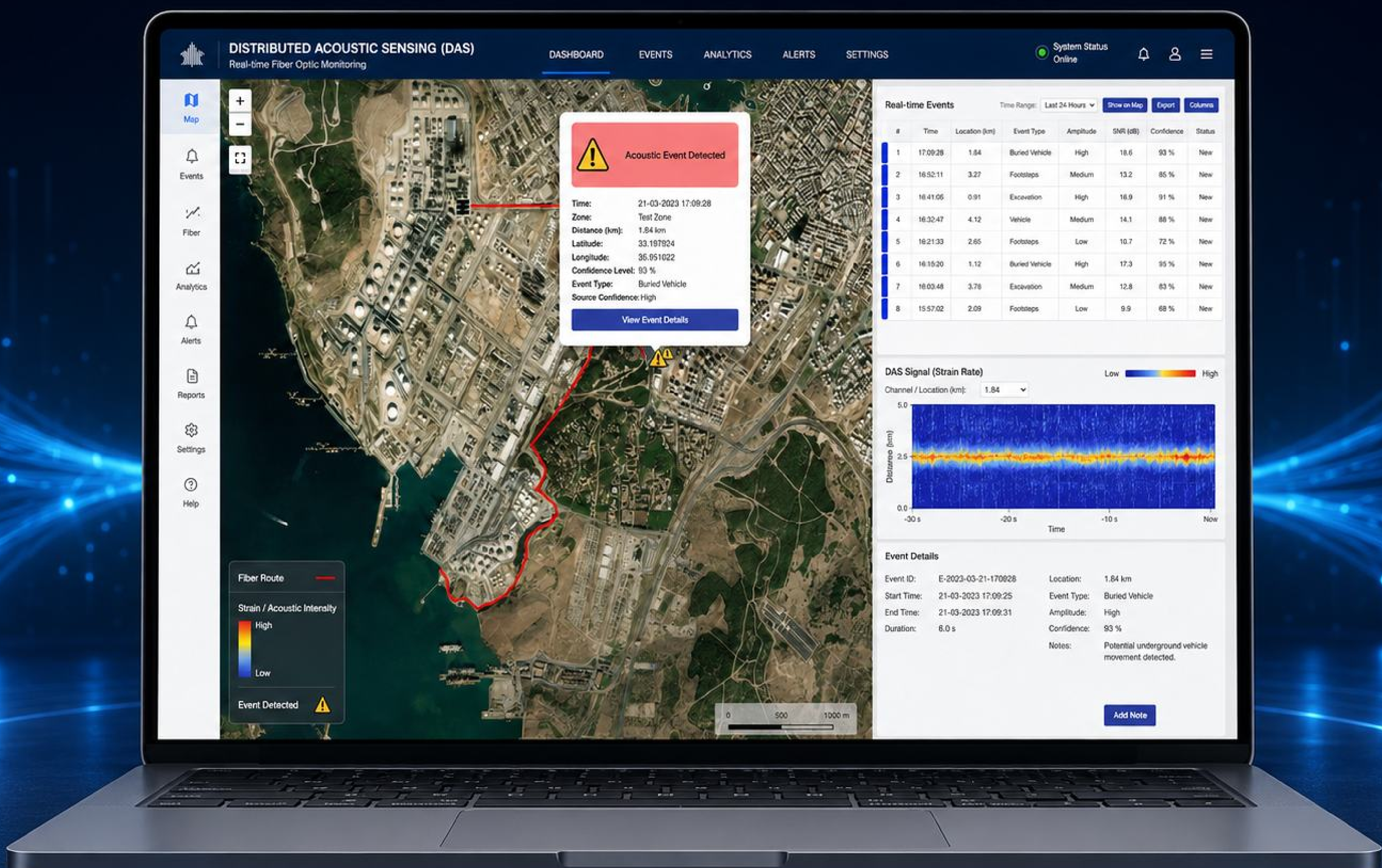
Building Products



Transforming Fiber Networks into Intelligent Sensing Systems

What is WolfSense?

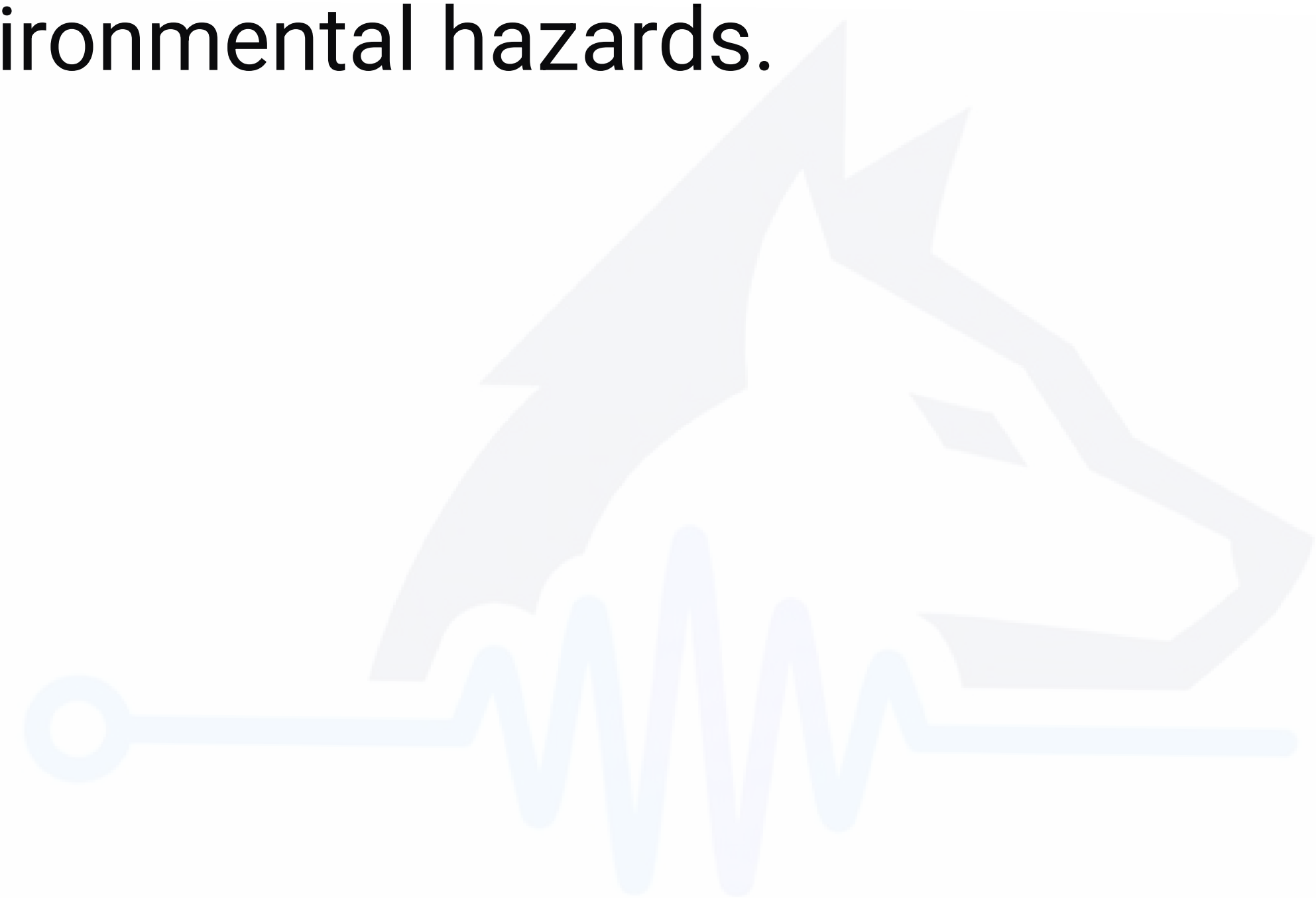
An intelligent Distributed Acoustic Sensing (DAS) platform designed to safeguard critical infrastructure through continuous, real-time monitoring. It transforms existing or dedicated fiber-optic cables into extensive sensing networks capable of detecting vibrations, intrusions, faults, leaks and other operational events across long distances.





How **DAS** Works?

It combines fiber-optic sensing with artificial intelligence, geospatial visualization and remote monitoring, Delivers precise, actionable intelligence to infrastructure operators and security teams, enabling faster response and early intervention before incidents escalate into service disruptions, security breaches or environmental hazards.



Solutions



Solution 1:

Real Time Intrusion Detection for Borders and High Security Perimeters

Manual Patrols Cannot Cover Every Meter

High value sites require reliable monitoring that cannot be easily bypassed and does not depend only on manual patrols or conventional cameras. Perimeter threats can occur in remote, low visibility or high risk locations where delayed detection may lead to serious security consequences.

DETECTION CAPABILITIES

Detect what matters. Respond faster.

✓ Human & vehicle movement

✓ Fence climbing or tampering

✓ Digging & tunneling

✓ Restricted-zone intrusion

✓ Real-time map location

✓ CCTV & command integration

Solution 2:

Pipeline Monitoring with Real Time Leak and Intrusion Detection

Delayed Visibility Puts Pipeline Assets at Risk

Pipeline operators face increasing pressure to maintain asset reliability, prevent leakage, reduce environmental risk and protect long distance routes from unauthorized interference. Traditional inspection methods often provide delayed visibility and may not detect threats until damage has already occurred.



PIPELINE INTELLIGENCE

Detection Capabilities

- | | | |
|---|---|---|
| 01
Leak detection | 02
Third party interference detection | 03
Excavation and digging activity detection |
| 04
Pipeline tapping and tampering alerts | 05
Vehicle and human activity monitoring | 06
Route disturbance detection |
| 07
Ground movement indication | 08
Real time event localization | 09
Operational event logging |

Protect Fiber Routes and Communication Infrastructure

Cable Cuts Cost More Than Repairs

Telecom operators depend on reliable fiber infrastructure to maintain service continuity. Cable cuts, unauthorized digging, tampering, vandalism and route disturbances can lead to network outages, customer impact and increased repair costs.

DETECTION CAPABILITIES

Monitor every meter of the route.

- | | | |
|---|---|------------------------------------|
| ✓ Cable tampering detection | ✓ Unauthorized excavation detection | ✓ Route disturbance monitoring |
| ✓ Physical vibration and movement detection | ✓ Fiber cut indication | ✓ Environmental disturbance alerts |
| ✓ Network route visibility | ✓ Integration with NMS and monitoring centers | ✓ Historical event reporting |

Solution 4:

Infrastructure Intelligence for Power and Industrial Facilities

WolfSense supports power plants, industrial sites, utilities and high value facilities with continuous sensing for perimeter security, asset protection and operational awareness. The platform enables teams to monitor large areas, detect abnormal activity and respond to potential threats from a centralized command view.



POWER & INDUSTRIAL

Use Cases

01

Power plant perimeter monitoring

02

Substation security support

03

Industrial facility intrusion detection

04

Utility corridor monitoring

05

Restricted zone surveillance

06

Critical asset route protection

07

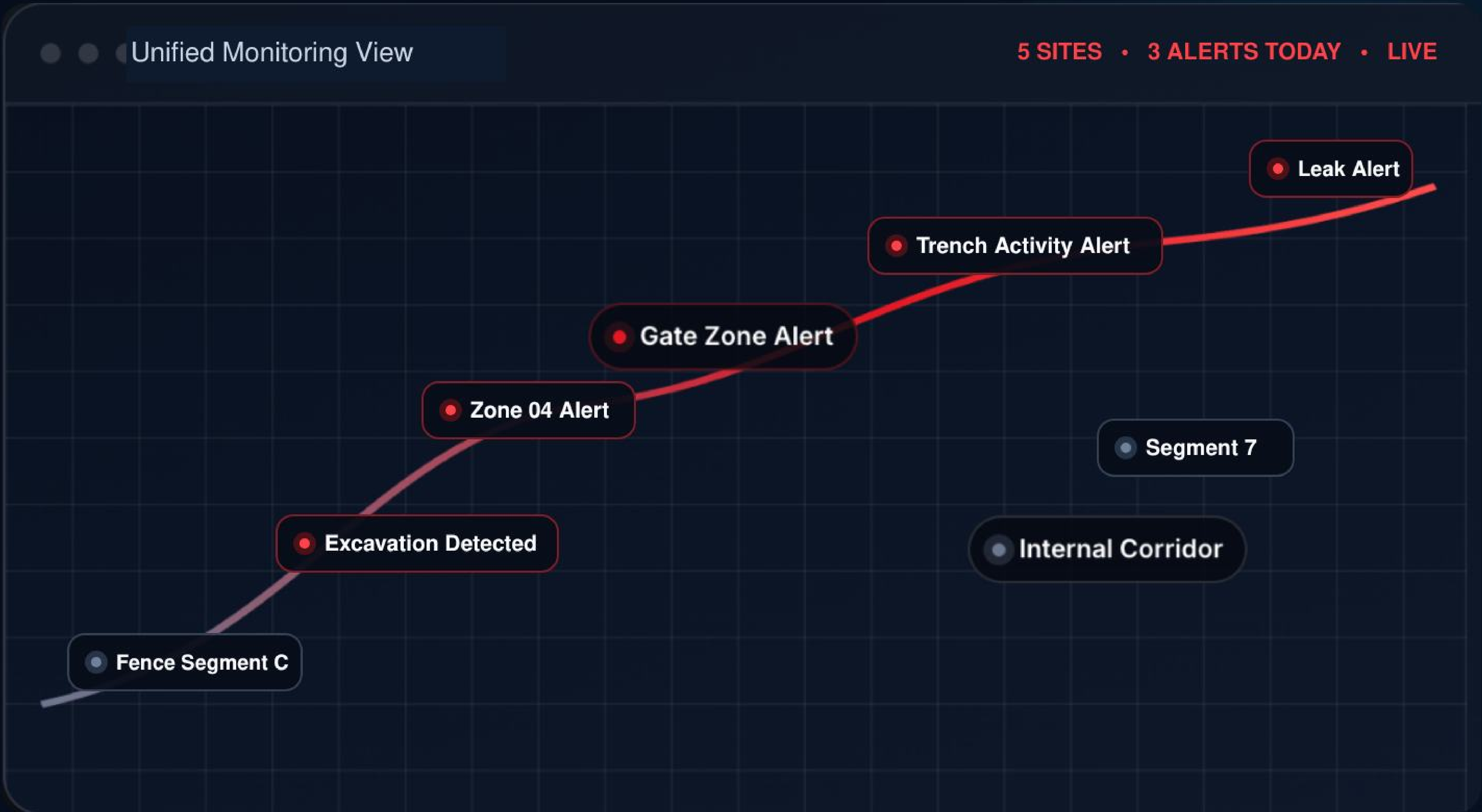
Remote site monitoring

08

Integration with existing security systems

One View. Every Event. Clear Action.

Pipeline • Border • Telecom • Industrial Assets



96 km fiber • 42 km pipeline • 18 km perimeter • 12 cameras • NMS + command center synced

CONSOLIDATED BENEFITS

31 source benefits. 12 clear outcomes.

Overlapping points are merged so the value is easier to understand and present.

Security & Coverage

- Continuous surveillance across long and remote assets
- Earlier detection of intrusion, leaks and unauthorized movement
- Fewer blind spots around strategic infrastructure

Lower Cost & Longer Life

- Less reliance on manual patrols and field investigation
- Predictive maintenance and proactive asset management
- Lower repair cost and extended asset life

Faster Response

- Accurate event location and live command-center visibility
- Faster security and maintenance coordination
- Reduced outages, downtime and damage

Visibility & Resilience

- Centralized monitoring across dispersed sites
- Event history, reporting and compliance readiness
- Stronger service reliability and future-ready resilience

Our Products

WolfSense 9



Range	Up to 20 Km
Channels	Single / Multi Channel
Frequency Range	10 - 10000 Hz
Spatial Resolution	5 - 10 m
Acquisition Time	Down to 0.1 s

WolfSense 99



Range	Up to 40 Km
Channels	Dual simultaneous interrogation channels
Frequency Range	10 - 10000 Hz
Spatial Resolution	5 - 10 m
Acquisition Time	Down to 0.1 s



Certifications



Our Partners



Specializations





**Wondering what Wolfiz
can do for your business?**

**Let's put a meeting
in pipeline!**

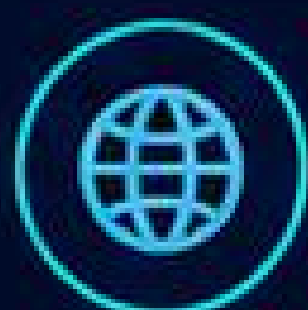
Contact Us



+92 51 2120777



2nd Floor, EOBI House, G-10,
Mauve Area, Islamabad



<https://wolfiz.com/>